

Each talk to address:

1. Energy per beam and cme and ability to change it and scan it (range)
2. Peak luminosity , annual luminosity
3. Time structure of collisions
4. IP parameters and conditions: beam sizes 3D, crossing angles, crabs, radiation, etc
5. Potentials for upgrades: of Energy (main obstacles) , of Luminosity (main obstacles)
6. Main advantages: from the point of view of accelerator
7. Very briefly: status of technology, status of project, technically limited schedule [pre-start, construction, commissioning, ops] , cost range, facility power estimate.
8. detectors backgrounds – known issues, challenges

Facility

- Brief Description – in any order, eg:
 - [for particle physics audience]
 - General : main systems
 - Key technologies and maturity (approx.)
 - Define max energy and cost risks (see slide #4)
 - Key beam physics challenges
 - Define luminosity risk
 - Key parameters and input to the “Big Table” (#5)
 - Timeline(s) - technically limited, other

Technical Maturity

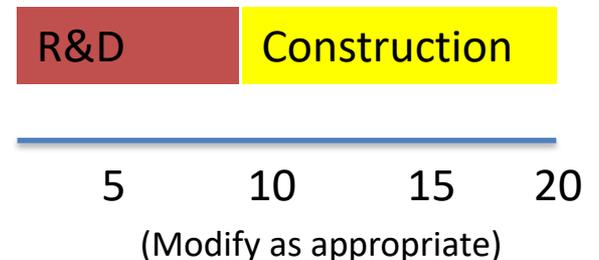
- Overall Technical Maturity

- 1- Significant R&D required
- 2- Some R&D in a few key areas required
- 3 – Shovel ready

- Critical Technologies and TRL level

- A
- B
- C

- Technically limited timeline



Facility “Standard Table”

Facility / Your name*	Particle species	* Contact email for Qs
Beam Energy	GeV	
Peak Luminosity (10^{34})	cm ⁻² s ⁻¹	
Int. Luminosity	ab ⁻¹ /yr	
Beam dE/E at IP		
Transv. Beam sizes at IP x/y	um	
Rms bunch length / beta*	cm	
Crossing angle	urad	
Rep./Rev. frequency	Hz	
Bunch spacing	ns	
# of IPs		
# of bunches		
Length/Circumference	km	
Facility site power	MW	
Cost range	\$B US	(day 2 speakers – feel free to skip)
Timescale till operations		

June 24 and July 1 AF-EF talks (10 am EST)

day 1: 10 min + 5 min Q&A = 15 min total/talk

day 2: 10 min + 10 min Q&A = 20 min total/talk

- Day 1 (matured projects with TDRs and CDRs)
 - 1.1 FCCee
 - 1.2 CepC
 - 1.3 ILC
 - 1.4 CLIC
 - 1.5 EIC
 - 1.6 LHeC
 - 1.7 HE-LHC
 - 1.8 SPPC
 - 1.9 FCChh
- Day 2 (off-mainstream yet)
 - 2.1 Cold NC-LC
 - 2.2 ERL-FCCee
 - 2.3 Gamma-gamma Higgs factories
 - 2.4 Plasma – Laser (1 TeV +)
 - 2.5 Plasma – Beam (1 TeV +)
 - 2.6 Dielectric WF/advanced structures (1 TeV +)
 - 2.7 Muon Higgs Fact and 3-14 TeV Collider